

# Download Cement And Mortar Additives, 1972

Most concrete produced today includes either chemical additions to the cement, chemical admixtures in the concrete, or both. These chemicals alter a number of properties of cementitious systems, including hydration behavior, and it has been long understood by practitioners that these systems can differ widely in response to such chemicals. Cement and Concrete Research 39 (2009) 6–13 Contents lists available at ScienceDirect Cement and Concrete Research journal homepage: <http://ees.elsevier.com/CEMCON/default.asp> Cement hydration and microstructure formation in the presence of water-soluble polymers E. Knapen a,b,?, D. Van Gemert a a Department of Civil Engineering, Building ...Hardening of cement mortars modified with small amounts of water-soluble polymers implies both cement hydration and polymer film formation. In this paper, the effect of the presence of water-soluble polymers on the cement hydration reactions is investigated by means of isothermal calorimetry, thermal analysis, FT-IR spectroscopy and SEM investigation. ABSTRACT This project investigates the possible use of Pulverized Bentonitic Clay (PBC) as a partial replacement of cement in concrete production The urge to find alternative materials to existing conventional ones and the need to improve the - Cement And Mortar Additives, 1972